



# Quantifying Yield Improvements in Ghanaian Community Health Centres Using Quasi-Experimental Design: A Methodological Evaluation

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**Published:** 26 January 2010 | **Received:** 28 October 2009 | **Accepted:** 02 January 2010

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**DOI:** [10.5281/zenodo.18901859](https://doi.org/10.5281/zenodo.18901859)

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## Abstract

Community health centres in Ghana are pivotal for delivering healthcare services to underserved populations. However, their operational efficiency and yield improvements remain underexplored. A quasi-experimental design was employed to assess the impact of interventions aimed at improving service efficiency and patient outcomes. Data collection involved self-reported surveys and performance metrics from participating clinics. Significant variations in yield improvements were observed across different health centres, with a notable increase in case resolution times by up to 30% among those implementing targeted training programmes. The quasi-experimental design proved effective in measuring yield improvements and identified specific areas for further intervention to enhance service delivery efficiency. Further research should focus on replicating these findings across a larger sample of health centres, with particular emphasis on scaling interventions that demonstrate positive outcomes. Community Health Centres, Quasi-Experimental Design, Yield Improvements, Ghana Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, community health systems, yield analysis, quasi-experimental design, impact evaluation, resource allocation, performance measurement*

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